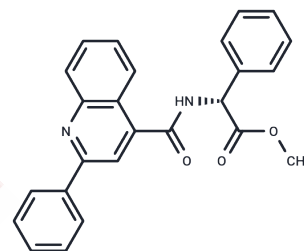


SB 218795

Chemical Properties

CAS No. : 174635-53-1
 Formula: C₂₅H₂₀N₂O₃
 Molecular Weight: 396.44
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	SB 218795 is an effective and selective antagonist of NK3 with a Ki 13 nM for hNK3 which is about 90-fold and 7000-fold selectivity over hNK2 and hNK1.
Targets(IC50)	Neurokinin receptor
In vitro	SB 218795 (3-30 nM) competitively antagonizes senktide-induced contractile responses in a concentration-dependent manner [1].
In vivo	In rabbits, SB218795 (0.25-1mg/kg; i.v.) inhibits NK3 receptor-mediated pupillary constriction by maximum inhibition of 78%[1].

Solubility Information

Solubility	Ethanol: 5 mM, Sonication is recommended. DMSO: 60 mg/mL (151.35 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5224 mL	12.6122 mL	25.2245 mL
5 mM	0.5045 mL	2.5224 mL	5.0449 mL
10 mM	0.2522 mL	1.2612 mL	2.5224 mL
50 mM	0.0504 mL	0.2522 mL	0.5045 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Medhurst AD, et, al. In vitro and in vivo characterization of NK3 receptors in the rabbit eye by use of selective non-peptide NK3 receptor antagonists. Br J Pharmacol. 1997 Oct;122(3):469-76.

Valero MS, et, al. Contractile effect of tachykinins on rabbit small intestine. Acta Pharmacol Sin. 2011 Apr;32(4):487-94.

Giardina GA, et, al. Discovery of a novel class of selective non-peptide antagonists for the human neurokinin-3 receptor. 1. Identification of the 4-quinolinecarboxamide framework. J Med Chem. 1997 Jun 6;40(12):1794-807.

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